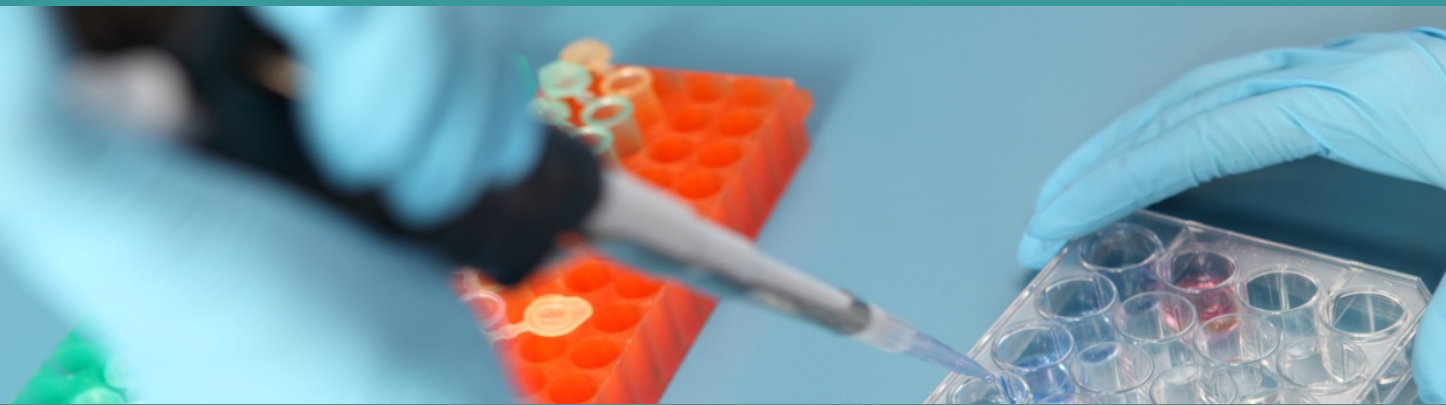




AT THE FOREFRONT OF IMMUNO-ONCOLOGY

**LSX World Congress, London
February 2020**

LSE: SCLP.L





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SCANCELL IS OPERATING AT THE FOREFRONT OF IMMUNO-ONCOLOGY

THE MARKET

- ▶ Expected to exceed US\$100bn p.a. by 2022 (source: ResearchAndMarkets.com 30 November 2018)
- ▶ Merck and BMS have developed blockbuster checkpoint inhibitor drugs with sales > US\$7bn p.a.
- ▶ Checkpoint inhibitors prevent tumour cells suppressing the immune system
- ▶ Biopharma companies worldwide are making huge investments to enter the I-O market

THE OPPORTUNITY

- ▶ Checkpoint inhibitors are applicable only to a minority of cancer patients
- ▶ The race is on to find new approaches for complementary therapies to increase the eligible patient population
- ▶ Scancell's **IMMUNOBODY®**, **MODITOPE®** and **AvidiMab™** platforms have broad applicability

CLINICAL STAGE ASSETS

- ▶ Four lead products in development
- ▶ Phase II study initiated and Phase I/II studies in preparation targeting multiple cancer indications

SCANCELL

- ▶ Scientific founder Prof. Lindy Durrant
- ▶ 23 employees based in Oxford and Nottingham (12 PhDs)
- ▶ AIM quoted (SCLP)

OUR PARTNERS



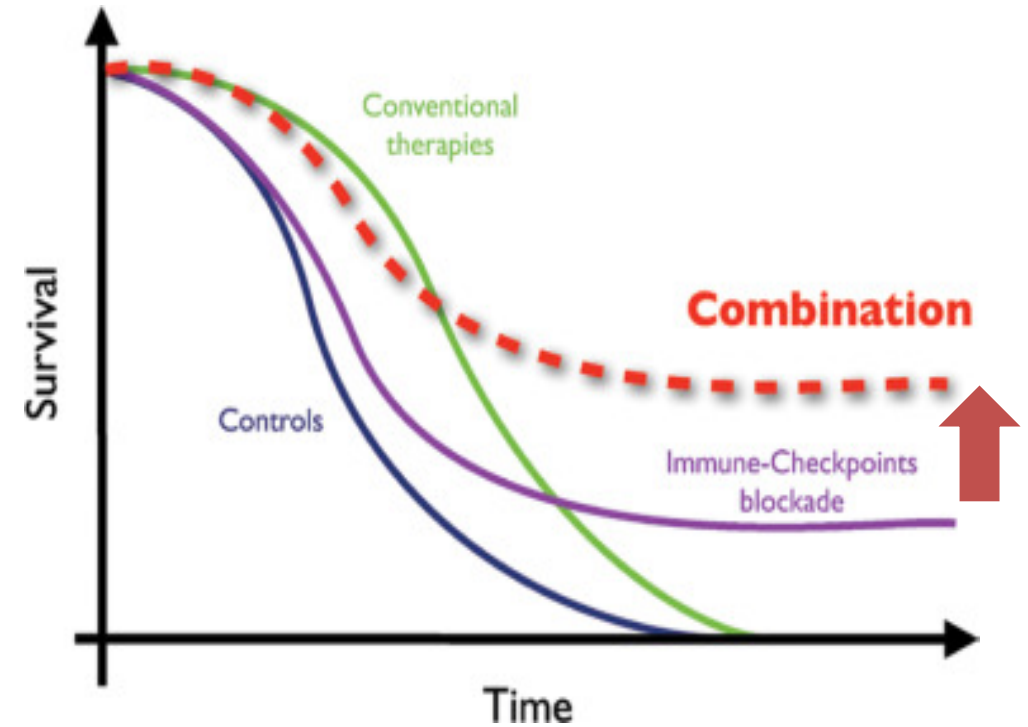
3 PLATFORMS, 4 LEAD PRODUCTS + MULTIPLE CANCER INDICATIONS



- ▶ Innovative platform technologies to generate novel therapeutics
- ▶ Validation through translation of core science to clinically relevant data
- ▶ Unmet need: response rates and duration of response to checkpoint inhibitors vary greatly depending on the type of cancer
- ▶ Growth and uptake of new immunotherapies will be based on incremental clinical value beyond SoC

The future of immuno-oncology is in novel combination therapies and new modalities that:

- ▶ Address the unmet needs in hard to treat cancers
- ▶ Provide an increased and durable response
- ▶ Do not increase toxicity
- ▶ Do not significantly increase overall cost of treatment





DEVELOPMENT PIPELINE

IMMUNOBODY®

- ▶ **SCIB1:** Targets malignant melanoma. Phase 2 trial in patients receiving immune checkpoint inhibitor
- ▶ **SCIB2:** Targets solid tumours. Phase 1/2 trial with immune checkpoint inhibitor to be funded and sponsored by Cancer Research UK (CRUK)

MODITOPE®

- ▶ **Modi-1:** Phase 1/2 trial including breast, ovarian, renal and head & neck cancer planned for 2H'20
- ▶ **Modi-2:** Targets multiple solid tumours
- ▶ **TCR collaboration:** To clone and characterise T cell receptors (TCR) against Modi-1 specific epitopes

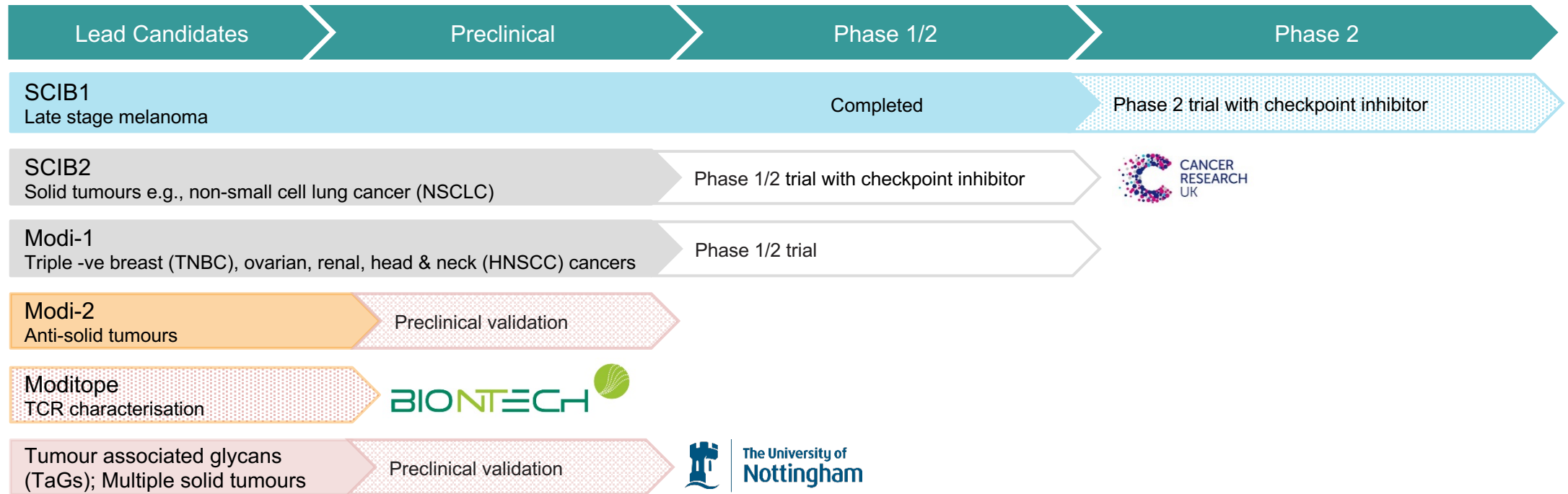
AvidiMab™ / TaG mAbs

- ▶ **Anti-glycan mAbs:** Monoclonal antibodies (mAbs) targeting tumour associated glycans (TaGs)
- ▶ **AvidiMab:** Broad potential for enhanced potency of mAbs
- ▶ **Research collaboration:** Evaluation in other platform technologies/formats

ImmunoBody

Moditope

mAbs





SCANCELL'S CANCER VACCINE PLATFORMS

- ▶ Key challenge is to stimulate an effective T cell response to reject or kill the growing tumour
- ▶ Most vaccine strategies only stimulate low frequency, low avidity T cell responses that fail to control tumour growth
- ▶ Scancell's novel therapies stimulate high avidity CD8 and/or CD4 T-cells that efficiently kill tumours

IMMUNOBODY®

- ▶ DNA-based platform generates high avidity CD8 T-cells by presenting T-cell epitopes of known cancer antigens through a unique dual mode of action

MODITOPE®

- ▶ Modified peptides that generate potent killer CD4 T-cells to target antigens induced by stress-induced post-translational modifications (siPTM vaccines)

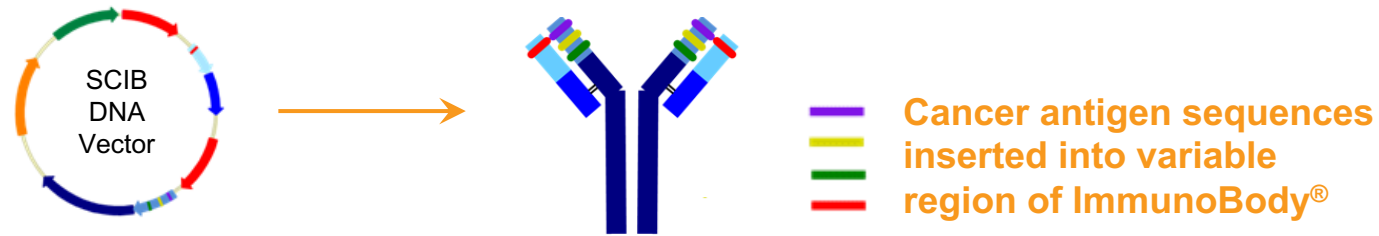
Clinical and pre-clinical studies indicate:

- ▶ Favorable safety profile in patients (SCIB1)
- ▶ Potential to address the unmet needs in hard to treat cancers
- ▶ Provide an increased and durable response
- ▶ Low cost of goods compared to cell therapies



THE IMMUNOBODY® PLATFORM

- ▶ Proprietary patent protected platform
- ▶ Several cancer associated T cell epitopes are engineered into a human antibody framework to make a genetic antigen/antibody complex



- ▶ Novel dual mechanism of action based on **direct** and **cross-presentation**
- ▶ SCIB1 for melanoma (**TRP-2/gp100 melanoma associated antigens**): Phase 1/2 clinical trial complete, Phase 2 study in combination with pembrolizumab underway
 - ▶ delivered as a DNA plasmid using electroporation
- ▶ SCIB2 for solid tumours (**NY-ESO-1**): Clinical development partnership with CRUK
 - ▶ nano-particle delivery evaluated as an alternative mode of delivery

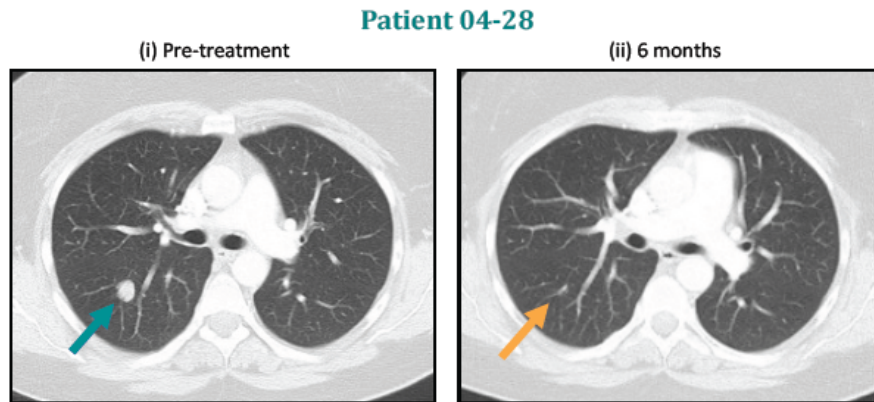


SCIB1 IN PATIENTS WITH LATE STAGE MELANOMA

SCIB1 has an excellent safety profile with no dose-limiting toxicities and no serious adverse events related to study drug or delivery device

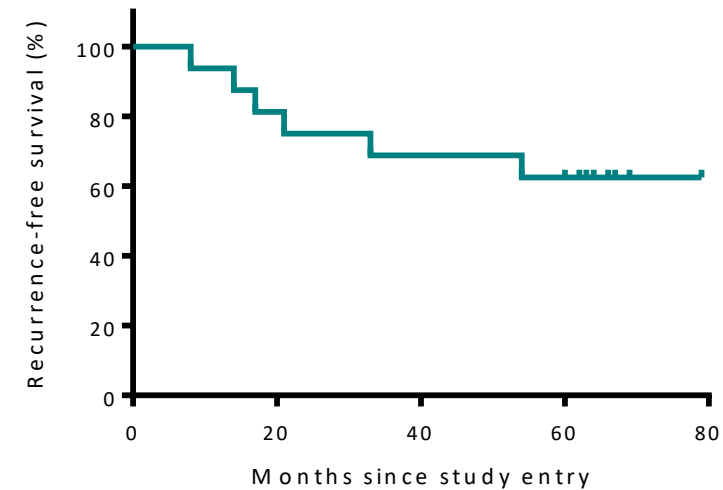
TUMOUR RESPONSE

Patient with tumour received 8 mg SCIB1 and showed a marked reduction in size of detectable lung lesions



SURVIVAL IN RESECTED PATIENTS

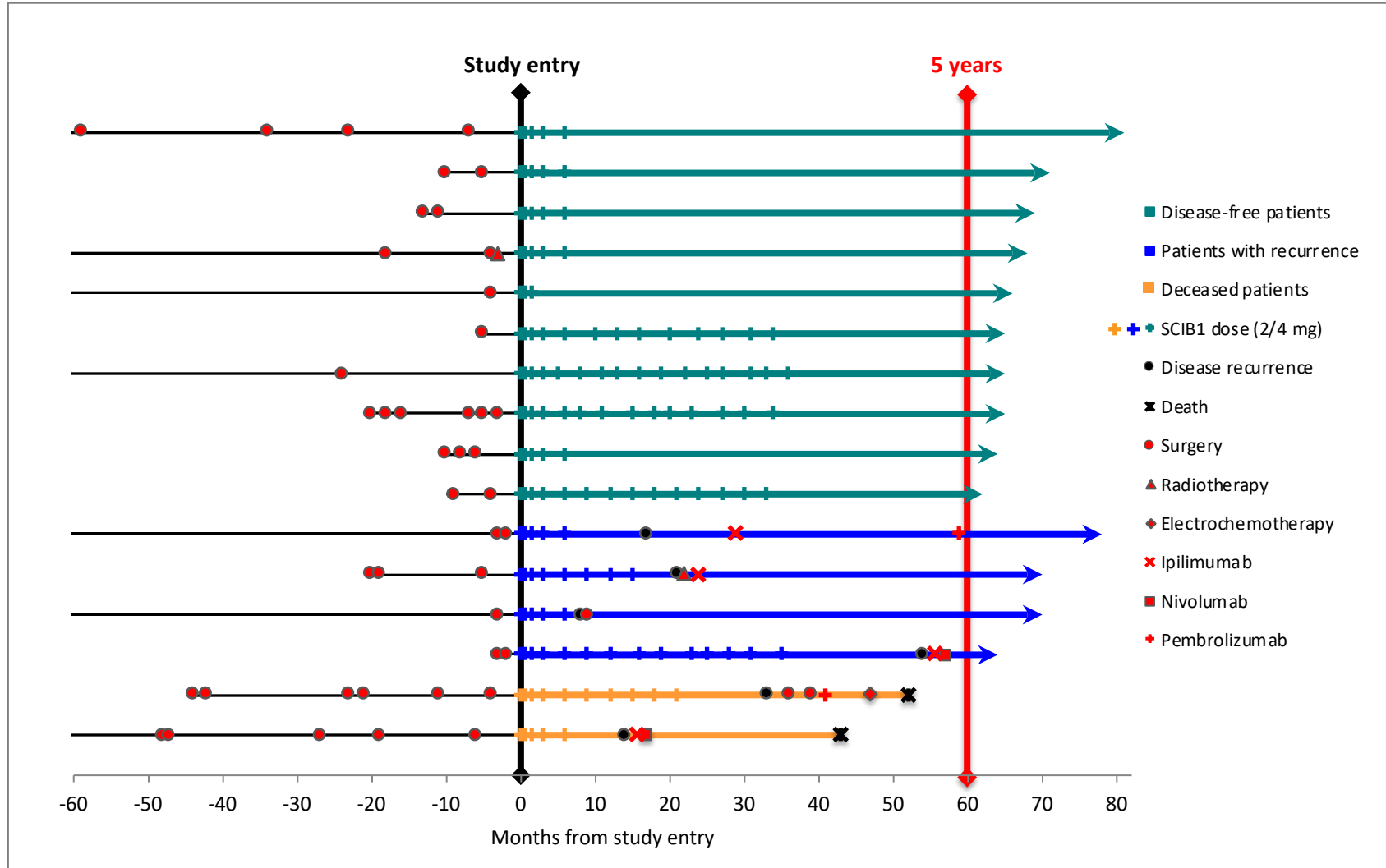
- ▶ Overall survival with SCIB1 treatment superior to historical survival rates
- ▶ 14 of 16 resected patients receiving 2-4 mg doses have survived for more than 5 years (February 2018)
- ▶ Melanoma recurrence rates are lower in SCIB1-treated patients than historical controls





SCIB1 IN LATE STAGE MELANOMA PATIENTS

PATIENTS WITHOUT TUMOUR PRESENT AT STUDY ENTRY

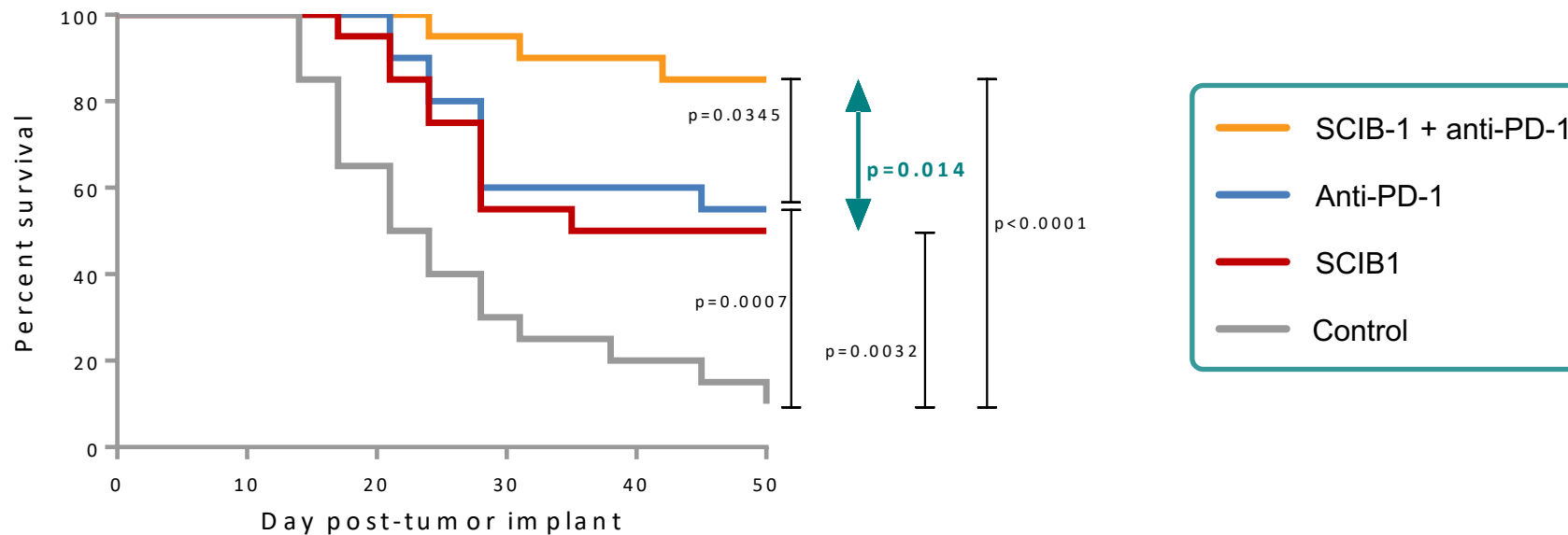




SCIB1 BOOSTS IMMUNE CHECKPOINT THERAPY

IN A MOUSE MELANOMA MODEL, SURVIVAL RATES WERE SIGNIFICANTLY BOOSTED WHEN ANTI-PD-1 THERAPY WAS COMBINED WITH SCIB1 TREATMENT

- ▶ Survival rates for SCIB1 ImmunoBody® monotherapy ≈ anti-PD-1
- ▶ Combination therapy resulted in an 85% survival rate
- ▶ SCIB1 also upregulates PD-L1 expression and memory response
- ▶ Monotherapy viable option for resected melanoma patients



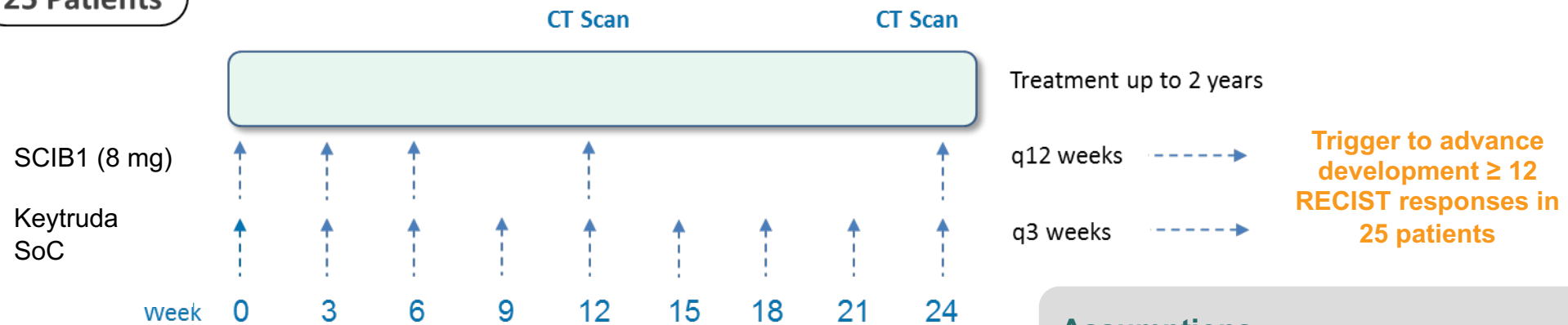


SCIB1 + CHECKPOINT INHIBITOR PHASE 2 TRIAL

PATIENT POPULATION

- ▶ Histologically confirmed, unresectable AJCC stage III or stage IV melanoma
- ▶ No prior systemic treatment for advanced disease
- ▶ Suitable for treatment with Keytruda (pembrolizumab), with measurable disease
- ▶ Part 1 safety run-in (n=6); Part 2 additional 19 patients; total = 25 patients

25 Patients



Assumptions

- ▶ Response rate to Keytruda = 30%
- ▶ Response rate of interest for combination = 55%

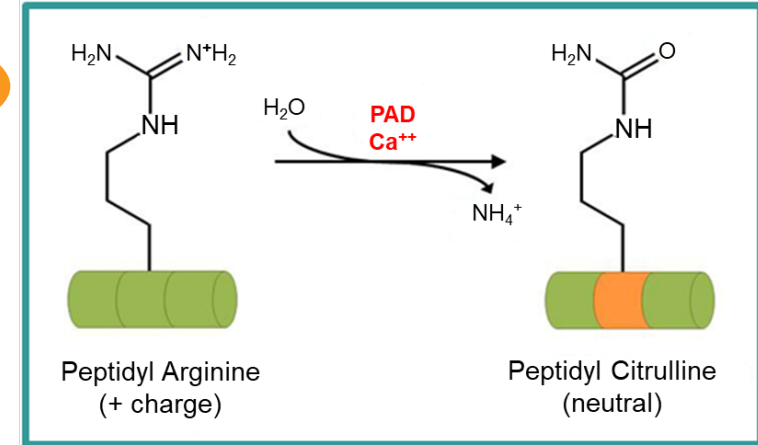


Stress-Induced Post-Translational Modifications (siPTM)

- ▶ One such modification involves the process of **CITRULLINATION**
 - ▶ The alteration of proteins due to enzymatic conversion of arginine residues to citrulline
 - ▶ Citrullination occurs as a result of a degradation and 'recycling' process called **autophagy** that is induced in stressed cells, including cancer cells
 - ▶ Citrullinated epitopes presented on **MHC class II**
 - ▶ Patent awarded in Europe, Japan, China, Australia; some claims allowed in the US and broader claims under review

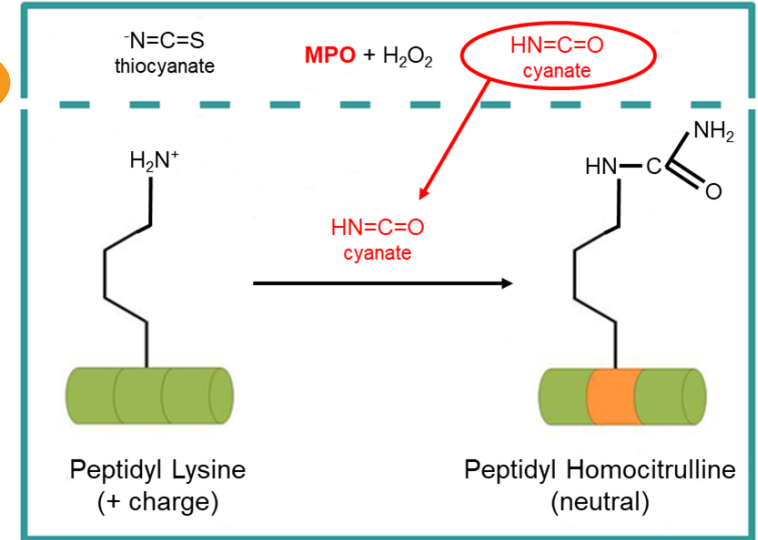
- ▶ Another modification involves the process of **HOMOCITRULLINATION**
 - ▶ The alteration of proteins due to conversion of lysine residues to homocitrulline
 - ▶ Homocitrullination occurs as a result of MPO released by myeloid-derived suppressor cells (MDSC) which converts thiocyanate to cyanate in the presence of H_2O_2
 - ▶ Cyanate diffuses into tumor cells and results in spontaneous homocitrullination of cytoplasmic proteins
 - ▶ These proteins are degraded and homocitrullinated epitopes presented on **MHC class II**
 - ▶ Patent filed with broad claims in cancer and composition of matter for any use of homocitrullinated peptides

Modi-1



PAD = peptidylarginine deiminase

Modi-2

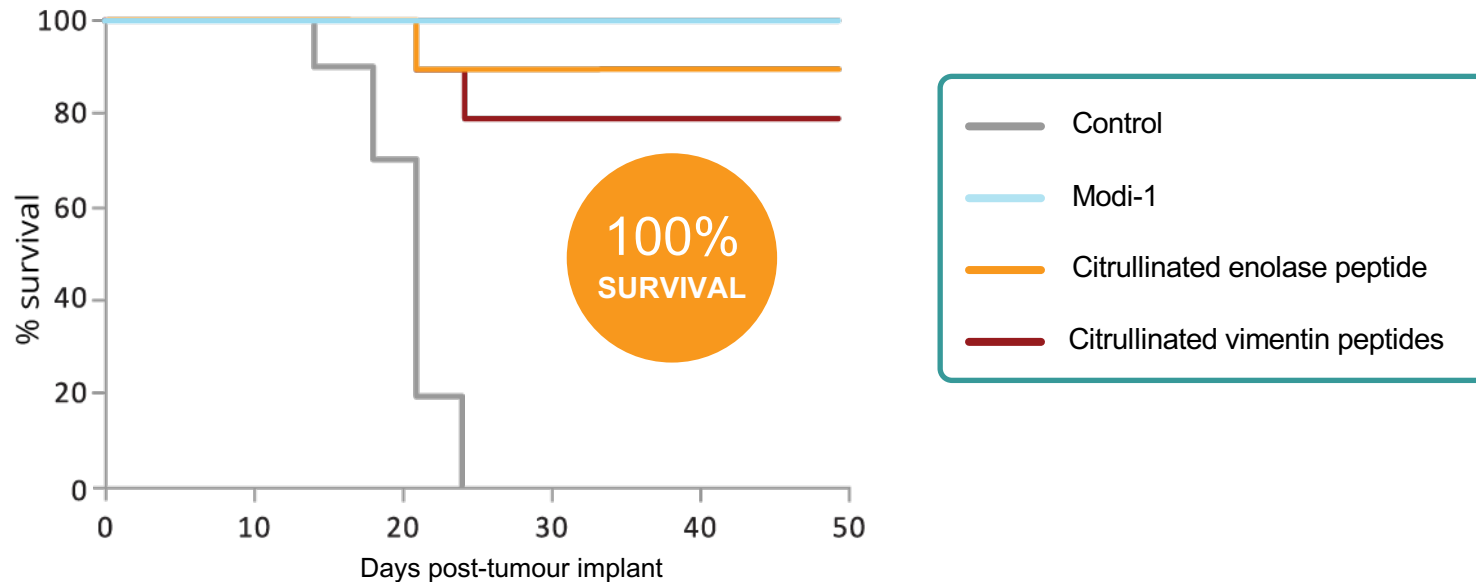


MPO = myeloperoxidase



MODITOPE® LEAD CANDIDATE: Modi-1

- ▶ Consists of:
 - ▶ Two citrullinated vimentin peptides (Vim-1 and Vim-2)
 - ▶ One citrullinated enolase peptide (Eno-1) } Conjugated with Amplivant® adjuvant to boost immune response
- ▶ Vimentin and enolase targets are highly expressed in triple negative breast cancer (TNBC), ovarian cancer, renal cancer and head & neck cancer and many other solid tumours with high unmet medical need
- ▶ Modi-1 induced potent anti-tumour responses in mice with established melanoma (B16)
- ▶ A single immunisation of Modi-1 resulted in a 100% survival rate in animal models





PROPOSED Modi-1 FIRST IN HUMAN STUDY

STUDY DESIGN

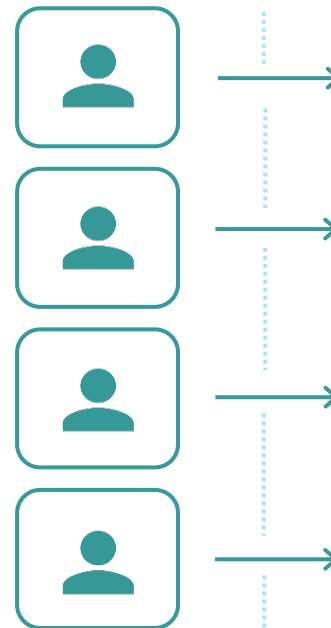
- ▶ Two initial cohorts to explore low and high conjugate doses
- ▶ Criteria to expand cohorts: $\geq 30\%$ of patients show an immune response and <2 dose-limiting toxicity (DLT) at selected dose
- ▶ Second part of the study will enrol four tumour-specific expansion cohorts
- ▶ If selected for expansion, HPV-negative head and neck patients will be treated with nivolumab and Modi-1

DOSE COMPARISON



EXPANSION PHASE

TNBC
Ovarian
Renal
Head & neck
plus nivolumab



Monotherapy cohorts (TNBC, ovarian and renal)

Simon 2-stage* design requires $\geq 19\%$ of patients to respond for further investigation

Combination therapy (HPV -ve HNSCC)

Simon 2-stage* design requires $\geq 28\%$ of patients to respond for further investigation

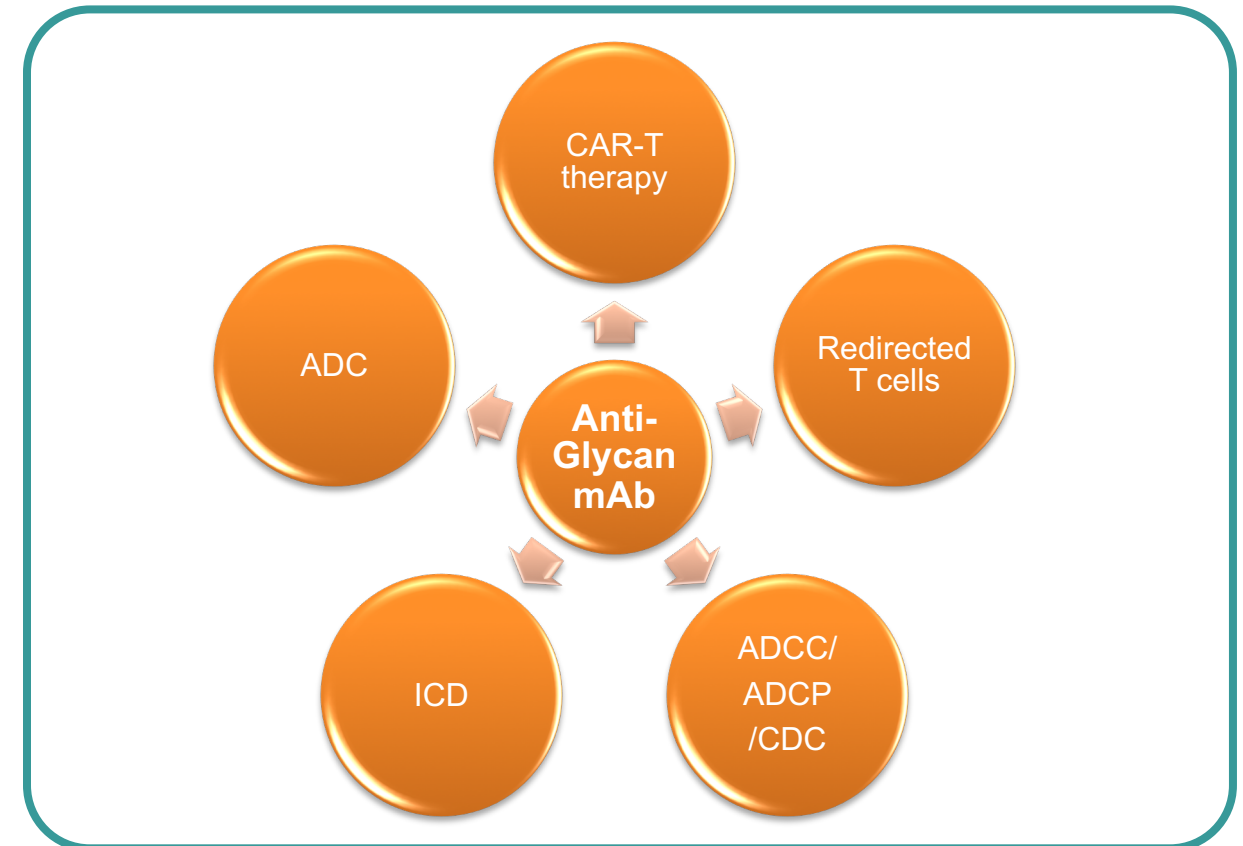
Simon 1989: Optimised 2-stage designs for Phase 2 clinical trials. Controlled clinical trials. Vol 10; 1-10.

- ▶ Protocol reviewed by Clinical Advisory Board (Chairman: Prof Robert Coleman)



Glycosylation is a recognised modulator of the malignant phenotype of cancer cells

- ▶ 5 anti-glycan mAbs FG88, FG27, FG129, FL134, FG2811 –unique direct cancer targets
 - ▶ Ultraspecific to unique tumour associated glycans (TaG)
 - ▶ IgG mAbs with subnanomolar functional affinity
 - ▶ Direct cell killing and induce potent ADCC/ADCP and CDC
 - ▶ FG2811 recognises and stimulates TSCM –agonist mAb
- ▶ AvidiMab™ method to enhance potency – could apply to any mAb
- ▶ Rapidly internalise and are good carriers for drugs (ADC)
- ▶ Potential targets for redirected T cell and CAR-T therapy



Expression of same glycan on proteins and lipids → multiple approaches to targeting cancer cells

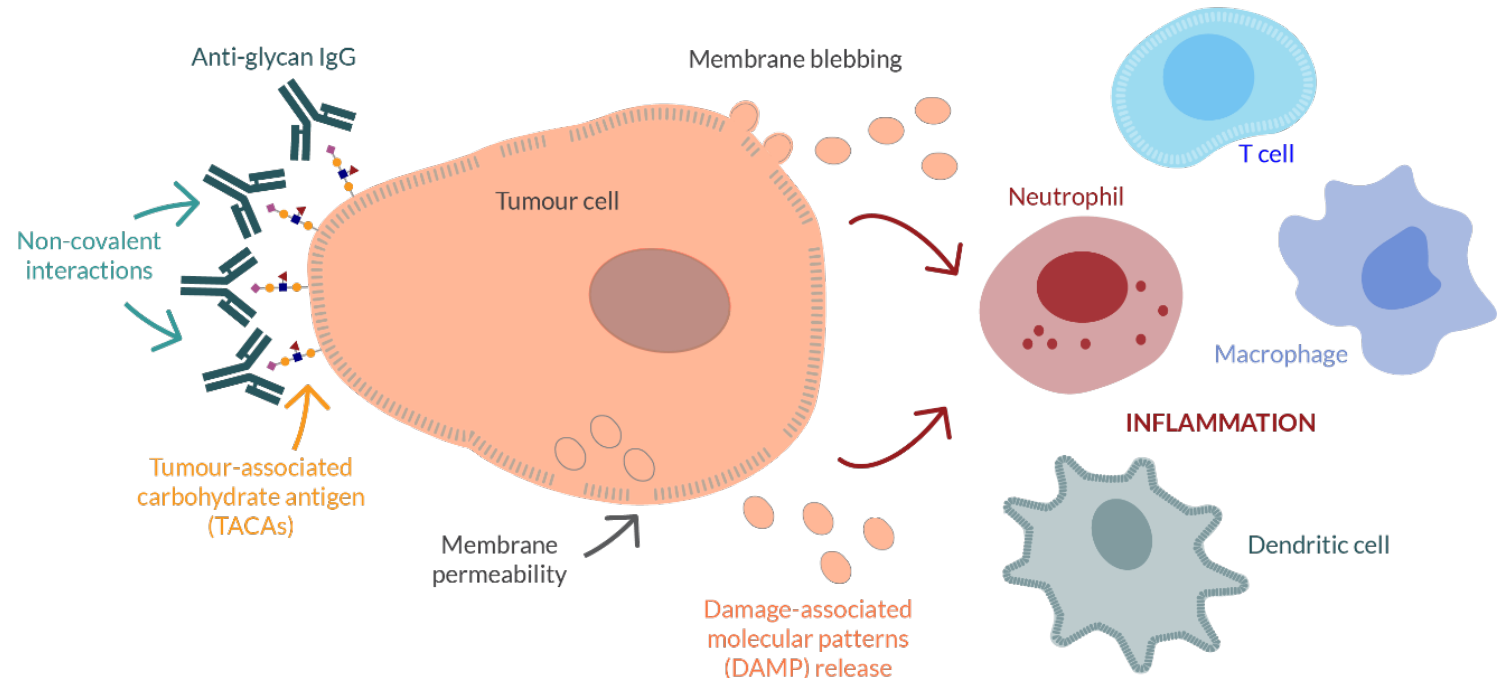


AvidiMab™ Key Features:

- ▶ Enhances functional affinity
- ▶ Increases direct cell killing
- ▶ Improved in vitro and in vivo anti-tumour activity
- ▶ Could improve the therapeutic index of any monoclonal antibody
- ▶ Patent protected

Increases the avidity of human antibodies by promoting non-covalent Fc-Fc interactions.

This modification promotes the direct tumour cell killing ability of anti-glycan mAbs.





TaG ANTIBODY SUMMARY

mAb	FG27	FG88	FG129	FL133/4	FG2811
Glycan target	Lewis ^y (ultraspecific)	Lewis ^{a/c/x}	Sialyl-di-Lewis ^a	FucGM1	SSEA-4 Stimulates stem cell memory (T _{SCM})
Antigen	Glycolipids & glycoproteins	Glycolipids & glycoproteins	Glycoproteins	Glycolipid	Glycolipid
Tumour targets	Colorectal, Gastric, Pancreatic, Ovarian, Breast	Colorectal, Gastric, Pancreatic, Ovarian, Breast, Lung	Colorectal, Gastric, Pancreatic	Small cell lung cancer	Any solid tumour - recognises Hu/Mse T _{SCMs}
Normal tissue reactivity	Weak on stomach and pancreas	GI tract	Very weak oesophagus	TBD	T _{SCM}
ADC activity	1 nM	10 pM	10 pM	No	NA
Direct killing activity	30-100 nM	2-10 nM	20 nM	TBD	Agonist mAb
Immune mediated killing ADCC/CDC	ADCC:1 nM CDC:5 nM	ADCC:1 nM CDC:1 nM	ADCC:0.1 nM CDC:20 nM	ADCC:2 nM CDC:100 nM	NA
mAb structure	Humanised	Chimeric	Chimeric	Chimeric	Chimeric
Potential fields of use	ICD ADC CAR-T Bispecifics	ICD	ICD ADC CAR-T Bispecifics	CAR-T Bispecifics	In vivo and In vitro T _{SCM} expansion

Broad scope and utility → multiple licensing opportunities

ADC = antibody drug conjugate; ADCC/CDC = antibody-dependent cell-mediated cytotoxicity/complement-dependent cytotoxicity; ICD = immunogenic cell death; CAR-T = chimeric antigen receptor T cells; TBD = to be determined



Operational

- ▶ **SCIB1 Phase II trial**
 - ▶ MHRA approval and initiation of UK arm of study
- ▶ **Modi-1 manufacturing**
 - ▶ GMP manufacturing and toxicology studies
- ▶ **Strengthened team and Clinical Advisory Board**
 - ▶ Head of Research and Head of Manufacturing
 - ▶ Established Clinical Advisory Board (CAB)
- ▶ **Cancer Research UK SCIB2 partnership update**
 - ▶ Nano-particle delivery of SCIB2 preclinical results
- ▶ **Expanded IP portfolio**
 - ▶ EU and US patent grant for protection of Modi-1
- ▶ **Expanded utility of AvidiMab and TaG mAbs**
 - ▶ Two evaluation agreements for potential partnering transactions

Financial

- ▶ **Vulpes investment and Board position**
 - ▶ In June, Scancell raised gross proceeds of £3.88m by the issue of 77.6m new ordinary shares to Vulpes Life Sciences Fund
 - ▶ Martin Diggle, Co-Founder and Portfolio Manager of Vulpes Investment Management, appointed to the Company's Board of Directors as a Non-Executive Director.



ANTICIPATED NEWSFLOW + MILESTONES

IMMUNOBODY®

SCIB1

- ▶ SCIB1/checkpoint inhibitor Phase 2 study in late stage melanoma
 - ▶ Activation of additional study centres in UK and US to accelerate patient recruitment and generation of interim clinical data

SCIB2

- ▶ CRUK development activities for initiation of SCIB2 Phase 1/2 study for solid tumours

MODITOPE®

Modi-1

- ▶ First-In-Human study with Modi-1 in patients with TNBC, ovarian cancer, renal cancer and HNSCC planned to start 2H CY20
- ▶ Identification of Modi-specific TCRs in collaboration with BioNTech

Modi-2

- ▶ Pre-clinical validation for multiple solid tumour indications
- ▶ Extension of patent portfolio

AvidiMab™ / TaG mAbs

- ▶ Additional validation data /publications and extension of patent portfolio
- ▶ Transition of established research/evaluation agreements to potential partnerships



OUTLOOK

3 PLATFORMS + BROAD PIPELINE + 5 CORE ACTIVITIES

CLINICAL DATA

- ▶ Generate meaningful clinical data to address unmet needs: clinical read-outs (SCIB1 Phase 2 & Modi-1 Phase 1/2 interim data) anticipated within next 18 months

PIPELINE EXPANSION

- ▶ Extend utility of Moditope® platform beyond Modi-1 and Modi-2 in association with key industry players e.g., TCRs
- ▶ Expanded utility and validation of anti-glycan mAbs and AvidiMab platform

TECHNOLOGY PARTNERSHIPS

- ▶ Evaluate and implement enabling technologies e.g., nano-vesicle delivery (Immunobody®), and adjuvant (Moditope®), to aid and de-risk development

CLINICAL PARTNERSHIPS

- ▶ Establish relationships with key opinion leaders and clinical networks to ensure utility in clinical practice e.g., CRUK, CAB, and patient advocacy

INDUSTRY PARTNERSHIPS

- ▶ Explore synergies with large Pharma/Biotech companies in identifying combination therapies for optimal outcomes e.g., checkpoint inhibitors





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